Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) Apparatus for determining a frequency offset error, comprising an input for receiving a digitally coded frequency demodulated signal, said frequency demodulated signal being processed by
- digital means for performing a correlation in order to determine whether a correlation criterion is fulfilled, and
- digital means for performing a minimum-maximum evaluation in order to determine whether a minimum-maximum criterion are fulfilled, said apparatus further comprising digital processing means to calculate the current offset of the frequency demodulated signal and to cancel the current offset if both criteria are fulfilled.
- 2. (Currently Amended) The apparatus of claim 1, wherein the digital means for performing a correlation comprise a correlator, a peak detector and a comparator.
- 3. (Currently Amended) The apparatus of claim 1, wherein the digital means for performing a minimum-maximum evaluation comprise two subtractors and two comparators.
- 4. (Currently Amended) The apparatus of claim 1, wherein the digital processing means comprise an average detector, an offset register, and an offset compensator to subtract the current offset stored in the offset register from the frequency demodulated signal.
- 5. (Previously Presented) The apparatus of claim 1, wherein the digital means for performing a correlation and the digital means for performing a minimum-maximum

evaluation both provide signals to the digital processing means in order to cause the digital processing means to cancel the current offset.

- 6. (Previously Presented) The apparatus of claim 1, comprising two comparators serving as limiters followed by building blocks arranged to extract said frequency demodulated signal from a frequency shift keyed modulated signal.
- 7. (Currently Amended) The apparatus of claim 1 wherein the digital means for performing a correlation correlate the frequency demodulated signal with a time-limited sine wave signal, and determine whether the result of this correlation exceeds a certain threshold.
- 8. (Previously Presented) The apparatus of claim 1, wherein the digital means for performing a correlation provide an output signal indicating that the a criterion for a known sequence is fulfilled.
- 9. (Currently Amended) The apparatus of claim 1, wherein the digital means for performing a minimum-maximum evaluation determine whether expected peaks of positive and negative half-waves of the frequency demodulated signal have predefined distances.
- 10. (Previously Presented) The apparatus of claim 1, wherein the digital means for performing a minimum-maximum evaluation calculate two subtractions in order to compare four received symbols with corresponding amplitudes.
- 11. (Previously Presented) The apparatus according to claim 1, wherein the frequency demodulated signal is a digital coded signal.
- 12. (Currently Amended) The apparatus of claim 4, wherein the offset compensator is employed in order to continuously subtract a value stored in the offset register from the frequency demodulated signal.

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- 13. (Previously Presented) The apparatus of claim 4, wherein the average detector is a sliding average detector that continuously generates a mean value of the frequency demodulated signal.
 - 14. (Currently Amended) A receiver Receiver-comprising:

an apparatus according to claim 1 for determining a frequency offset error, the apparatus including:

an input for receiving a digitally coded frequency demodulated signal, said frequency demodulated signal being processed by,

digital means for performing a correlation in order to determine whether a correlation criterion is fulfilled, and

digital means for performing a minimum-maximum evaluation in order to determine whether a minimum-maximum criterion are fulfilled, said apparatus further comprising digital processing means to calculate the current offset of the frequency demodulated signal and to cancel the current offset if both criteria are fulfilled.

- 15. (Currently Amended) The receiver of claim 14, comprising an analog front-end and a digital back-end, said apparatus for determining a frequency offset error being part of said digital back-end.
- 16. (Previously Presented) The receiver of claim 14 being designed to receive and process FSK or GFSK modulated antenna signals.